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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/599,813	06/21/2000	Adriana Ardeleanu	MSI-583US	7153

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SPOKANE, WA 99201

EXAMINER

TRAN, QUOC A

ART UNIT	PAPER NUMBER
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2176

DATE MAILED: 08/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/599,813

Applicant(s)

ARDELEANU ET AL.

Examiner

Quoc A. Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-45 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 06/21/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. This action is in responses to Amendment A filed 05/18/2004. Applicant's arguments, see pages 12-35, with respect to the rejection(s) of claim(s) 1-45, have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made.
2. Claims 1-45 are currently pending in this application. Claims 1, 10, 20, 27, 35, and 39 are independent claims.
3. If a copy of a provisional application listed on the bottom portion of the accompanying Notice of References Cited (PTO-892) form is not included with this Office action and the PTO-892 has been annotated to indicate that the copy was not readily available, it is because the copy could not be readily obtained when the Office action was mailed. Should applicant desire a copy of such a provisional application, applicant should promptly request the copy from the Office of Public Records (OPR) in accordance with 37 CFR 1.14(a)(1)(iv), paying the required fee under 37 CFR 1.19(b)(1). If a copy is ordered from OPR, the shortened statutory period for reply to this Office action will not be reset under MPEP § 710.06 unless applicant can demonstrate a substantial delay by the Office in fulfilling the order for the copy of the provisional application. Where the applicant has been notified on the PTO-892 that a copy of the provisional application is not readily available, the provision of MPEP § 707.05(a) that a copy of the cited reference will be automatically furnished without charge does not apply.

Claim Rejections - 35 USC § 103

4. **The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:**

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1-9, are rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Natan et al. US Pub No. 2003/0158897 A1 issued 08/21/2003 filed 11/30/2000 provisional Application No. 60/203,081 filed 05/09/2000 (hereinafter '897), in view of Moore et al. US Pub No. 2001/0056429 A1 issued 12/27/2001 filed 03/21/2001 provisional Application No. 60/191,662 filed 03/23/2000 (hereinafter '429).**

Claim 1 is representing of claims 21;

In regard to independent claim 1, "rendering a DHTML document from an XML document", as taught by '897 at page 1 paragraph [0022] (i.e.... a method of producing compatibility between different forms where a first form is preferably programmed in any hierarchical format, including forms composed of tagged fields. The method comprises the steps of: (a) setting up a hierarchy of labels as nodes on a tree such that each node is specifiable by a descending order of labels, (b) tagging node data with labels of a node if an appropriate node exists, and (c) adding a new node to the tree if an appropriate node does not exist, and (d) tagging field data in the

second form with a concatenation of labels that match the traversal on the tree compatible with the first form. The first form may be an instance of the extensible markup language (XML), and the second form in HTML or any extension of it such as DHTML or XHTML).

'897 does not *explicitly teach*, "*using at least one XSLT transformation (XSL-T); and presenting a user interface based, at least in part, on the XSL-T that was used to render the DHTML document*", however as taught by '429 at page 18, paragraph [0291] (i.e. ... In addition, many alternatives to HTML as a presentation language are possible, including DHTML (Dynamic HTML), XHTML (Extensible HTML), RDF, PDF, etc. Moreover, many alternatives to XSLT as a presentation mechanism are possible. In general, the presentation mechanism should be able to map a representation of a collection or a data object (e.g., an XML DTD) into a presentation language such as HTML, and XSLT, as a scripting language, is a good choice...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify teachings of '897 for embedded the XSLT as the presentation mechanism for transform XML document into HTML, including DHTML as a presentation language as taught by '429. One of the ordinary skill in the art would have been motivated to modify this combination for enabling the user, at an indefinite point in time in the future to manipulate data/document infrastructure independently and not limit to any state or quality of being independent of a particular storage or computing platform or implementation or at most limited to only a generic class of storage or

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computing platforms or implementations, as taught by '429 at page 1, paragraph [0006] through [0008] (i.e....the long-term storage and access of digital information...).

In regard to dependent claim 2, “*automatically presenting the user interface*”, as taught by '897 at page 10, paragraph [0128] (i.e.... provide full automation of the process...).

In regard to dependent claim 3, “*the user interface comprises a context block*”, as taught by '897 at page 10, paragraph [0128] (i.e....FIGS. 7 and 8 between them depict a simple example using the convention in which the user information is stored in XML. The process starts by building a registration form. The form may look like FIG. 7 and the HTML of the form may look like FIG. 8...).

In regard to dependent claim 4, “*the user interface comprises an in-document user interface*”, as taught by '897 at page 8, paragraph [0102] (i.e....(XML structure) as input...).

'In regard to dependent claim 5, “*the user interface comprises an accelerator*”, as taught by '897 at page 2, paragraph [0016] (i.e.... the host is configured to rematch the attributes of users to attributes of communities automatically whenever there is an occurrence of any one of a group of conditions comprising a change in at least one attribute of at least one community, an update of at least one value of an attribute of at least one community, a change in at least one attribute of a user, an update of at least one value of an attribute of a user or any combination thereof...).

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In regard to dependent claim 6, incorporate substantially similar subject matter as cited in claims 3-5 above, and is similarly rejected along the same rationale.

In regard to dependent claim 7, *"the presenting deciding which user interface to present from a number of user interfaces"*, as taught by '897 at page 2, paragraph [0013] (i.e.... provided a system for defining communities and matching users into those communities, the matched users thereby gaining access to one or more elements associated with the communities... (d) matching the attributes of at least one user to attributes of at least one community. Assigning the user to the community is based on results of matching. Through this process, the user preferably gains access to at least one element associated with said community...)

In regard to dependent claim 8, *"ascertaining, a user's actions within a document; and presenting a user interface based on the ascertained user's actions"*, as taught by '897 at page 2, paragraph [0013] (i.e. According to one aspect of the present invention there is provided a system for defining communities and matching users into those communities, the matched users thereby gaining access to one or more elements associated with the communities. the system comprises a host that is connected to a network that serves for communication with a plurality of users, the host is configured for: (a) creating a community or a plurality thereof by defining attributes for each of the communities, (b) defining one or more elements associated with each of the communities, (c) assigning attributes to a user. The attributes are extracted from information received from input from any combination of the user itself, a remote database, a local database, a local system, a remote system, a web site, a

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custom-built algorithm and (d) matching the attributes of at least one user to attributes of at least one community. Assigning the user to the community is based on results of matching. Through this process, the user preferably gains access to at least one element associated with said community).

In regard to dependent claim 9, is directed to a computer-readable media for performing the method of claim 1, and is similarly rejected under the same rationale.

Claims 10-31, 33-35, and 37- 45, are rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Natan et al. US Pub No. 2003/0158897 A1 issued 08/21/2003 filed 11/30/2000 provisional Application No. 60/203,081 filed 05/09/2000 (hereinafter '897), in view of Moore et al. US Pub No. 2001/0056429 A1 issued 12/27/2001 filed 03/21/2001 provisional Application No. 60/191,662 filed 03/23/2000 (hereinafter '429), further in view of Krebs et al. US Patent No. 6,668,369 B1 issued 12/23/2003 filed 12/29/1999 (hereinafter '369).

Claim 10 is represented claim 39;

In regard to independent claim 10, incorporate substantially similar subject matter as cited in claim 1 above, and in further view of the following, and is similarly rejected along the same rationale;

The combination of '897 and '429 do not explicitly teach, "*rendering a user interface sufficient to enable a user to interact with a DHTML view*", however, as taught by '369 at col. 2, line 55 through col. 3, line 2 (i.e. ... debugging tool for viewing dynamic code... provides a tool for assisting a programmer in locating errors in

DHTML and scripts for generating dynamic code... the present invention permits the programmer to view the dynamic code generated at the client by the script. This assists the programmer to locate errors in, or "debug", software by viewing the results of a script, rather than the script itself. Advantageously, the present invention may be used in conjunction with existing browser software by providing a viewer for viewing...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify teachings of '897 and '429 for embedded the DHTML view as an additional feature of the user interface as taught by '369. One of the ordinary skill in the art would have been motivated to modify this combination for enabling the user at an indefinite point in time in the future to manipulate data/document infrastructure independently and not limit to any state or quality of being independent of a particular storage or computing platform or implementation or at most limited to only a generic class of storage or computing platforms or implementations, as taught by '429 at page 1, paragraph [0006] through [0008] (i.e....the long-term storage and access of digital information...). Since the code is now viewable, it would be more efficient and easier for programmer to debug the DHTML code, as taught by '369 at col. 2, lines 40-50 (i.e..... it would be easy to...).

In regard to independent claim 39, *"using the one or more behaviors to map user interactions to the XML document and effect structural changes on the XML document "*, as taught by '897 at page 1 paragraph [0022] (i.e.... a method of producing compatibility between different forms where a first form is preferably

programmed in any hierarchical format, including forms composed of tagged fields.

The method comprises the steps of: (a) setting up a hierarchy of labels as nodes on a tree such that each node is specifiable by a descending order of labels, (b) tagging node data with labels of a node if an appropriate node exists, and (c) adding a new node to the tree if an appropriate node does not exist, and (d) tagging field data in the second form with a concatenation of labels that match the traversal on the tree compatible with the first form. The first form may be an instance of the extensible markup language (XML), and the second form in HTML or any extension of it such as DHTML or XHTML);

“associating one or more behaviors with a DHTML tag in a DHTML view that has been rendered from an XML document; and responsive to a user interacting with a DHTML view associated with the DHTML tag”, as taught by ‘369 at col. 3, lines 35-50 (i.e..... DHTML... the table display tags (<TD>, </TD>) and related text of the script. It is easier to detect this error by viewing the dynamic code B shown in FIG. 3 than it is to detect this error by viewing the script A for generating the dynamic code shown in FIG. 2...).

In regard to dependent claim 40, *“wherein the one or more behaviors are data shape-dependent”, as taught by ‘897 at page 1 paragraph [0022] (i.e.... a) setting up a hierarchy of labels as nodes on a tree such that each node is specifiable by a descending order of labels, (b) tagging node data with labels of a node if an appropriate node exists, and (c) adding a new node to the tree if an appropriate node*

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does not exist, and (d) tagging field data in the second form with a concatenation of labels that match the traversal on the tree compatible with the first form...).

In regard to dependent claim 41, *“wherein the one or more behaviors are data shape-dependent, the data shape being defined by the XML document”*, as taught by ‘897 at page 1 paragraph [0022] (i.e.... The first form may be an instance of the extensible markup language (XML)...).

In regard to dependent claim 42, *“wherein the one or more behaviors are independent of any XML schema”*, as taught by ‘897 at page 1 paragraph [0022] (i.e.... tagging node data with labels of a node if an appropriate node exists, and (c) adding a new node to the tree if an appropriate node does not exist, and (d) tagging field data in the second form with a concatenation of labels that match the traversal on the tree compatible with the first form. The first form may be an instance of the extensible markup language (XML)...).

In regard to dependent claim 43, *“wherein the one or more behaviors are independent of data values”*, as taught by ‘897 at page 1 paragraph [0016] (i.e.... at least one value of an attribute of a user ...).

In regard to dependent claim 44, incorporate substantially similar subject matter as cited in claims 42-43 above, and is similarly rejected along the same rationale.

In regard to independent claim 45, is directed to a computer-readable media for performing the method of claims 1, 40, 42, and is similarly rejected under the same rationale.

In regard to dependent claim 11, "*wherein one parameter comprises a user location within a particular document*", as taught by '897 at page 4, paragraph [0049] (i.e.... Identifying users in terms of their defining attributes and using these defining attributes to categorize them into the community groups to which they belong...).

In regard to dependent claim 12, "*wherein one parameter comprises a portion of an XML schema that corresponds to a user's selection*", as taught by '897 at page 2, paragraph [0022] (i.e.... a method of producing compatibility between different forms where a first form is preferably programmed in any hierarchical format, including forms composed of tagged fields. The method comprises the steps of: (a) setting up a hierarchy of labels as nodes on a tree such that each node is specifiable by a descending order of labels, (b) tagging node data with labels of a node if an appropriate node exists, and (c) adding a new node to the tree if an appropriate node does not exist, and (d) tagging field data in the second form with a concatenation of labels that match the traversal on the tree compatible with the first form. The first form may be an instance of the extensible markup language (XML), and the second form in HTML or any extension of it such as DHTML or XHTML).

In regard to dependent claim 13, incorporate substantially similar subject matter as cited in claim 7 above, and is similarly rejected along the same rationale.

In regard to dependent claim 14, incorporate substantially similar subject matter as cited in claims 7-8 above, and is similarly rejected along the same rationale.

In regard to dependent claim 15, incorporate substantially similar subject matter as cited in claim 1 above, and is similarly rejected along the same rationale.

In regard to dependent claims 16, and 18, incorporate substantially similar subject matter as cited in claim 4 above, and are similarly rejected along the same rationale.

In regard to dependent claim 17, incorporate substantially similar subject matter as cited in claim 5 above, and is similarly rejected along the same rationale.

In regard to dependent claim 19, is directed to a computer-readable media for performing the method of claim 10, and is similarly rejected under the same rationale.

In regard to independent claim 20, incorporate substantially similar subject matter as cited in claims 10-15 above, and is similarly rejected along the same Rationale.

In regard to dependent claim 21, *"wherein the making of the selection comprises a cursor to a particular area within a document"*, as taught by '369 at page 4, paragraph [0049] (i.e.... view the dynamic code using software in accordance with the present invention. For example, the software could be incorporated into a Web browser and the dynamic code may be viewed by selecting an appropriate menu command, or by using a hot key or key sequence, e.g., depressing the shift key while double-clicking a mouse button ...).

In regard to dependent claim 22, incorporate substantially similar subject matter as cited in claim 6 above, and is similarly rejected along the same Rationale.

In regard to dependent claim 23, incorporate substantially similar subject matter as cited in claim 7 above, and is similarly rejected along the same Rationale.

In regard to dependent claim 24, incorporate substantially similar subject matter as cited in claim 8 above, and is similarly rejected along the same Rationale.

In regard to dependent claim 25, incorporate substantially similar subject matter as cited in claim 2 above, and is similarly rejected along the same Rationale.

In regard to dependent claim 26, is directed to a computer-readable media for performing the method of claim 20, and is similarly rejected under the same rationale.

In regard to independent claim 27, incorporate substantially similar subject matter as cited in claims 10, and 39 above, and in further view of the following, and is similarly rejected along the same rationale;

"mapping, via one or more behavior, ...XML document", as taught by '897 at page 7, paragraph [0090] (i.e.... user information is represented as XML (as described and exemplified earlier) then an XSL document may be used, using XPATH elements in order to define where the information the system is interested in resides. By using

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XSL the system can also apply simple computational elements on combinations of such values. For example, given the XML user information shown in FIG. 5A...).

In regard to dependent claim 28, incorporate substantially similar subject matter as cited in claim 40 above, and is similarly rejected along the same Rationale.

In regard to dependent claim 29, incorporate substantially similar subject matter as cited in claim 41 above, and is similarly rejected along the same Rationale.

In regard to dependent claim 30, incorporate substantially similar subject matter as cited in claim 42 above, and is similarly rejected along the same Rationale.

In regard to dependent claim 31, "*configured to function independently of XML tags that might be used*", as taught by '897 at page 2, paragraph [0022] (i.e.... first form is preferably programmed in any hierarchical format, including forms composed of tagged fields...tagging node data with labels of a node if an appropriate node exists, ...The first form may be an instance of the extensible markup language (XML)...).

In regard to dependent claim 33, "*wherein the crystals are reusable across different XML documents*", as taught by '429 at page 14, paragraph [0240] (i.e.... the one or more transformations 4602 included in the archive can be any of the transformations t.sub.1, t.sub.3, t.sub.4, t.sub.5...).

In regard to dependent claim 34, is directed to a computer-readable media for performing the method of claim 27, and is similarly rejected under the same rationale.

In regard to independent claim 35, is directed to a computer-readable media for performing the method of claims 10, 20, 27, 39, and is similarly rejected under the same rationale.

In regard to dependent claim 37, is directed to a computer-readable media for performing the method of claim 40, and is similarly rejected under the same rationale.

In regard to dependent claim 38, is directed to a computer-readable media for performing the method of claim 42, and is similarly rejected under the same rationale.

6. Claims 32, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Natan et al. US Pub No. 2003/0158897 A1 issued 08/21/2003 filed 11/30/2000 provisional Application No. 60/203,081 filed 05/09/2000 (hereinafter '897), in view of Moore et al. US Pub No. 2001/0056429 A1 issued 12/27/2001 filed 03/21/2001 provisional Application No. 60/191,662 filed 03/23/2000 (hereinafter '429), further in view of Krebs et al. US Patent No. 6,668,369 B1 issued 12/23/2003 filed 12/29/1999 (hereinafter '369), and in further view of Kutay et al. US Pub No. 2002/0026461 A1 issued 02/28/2002 filed 06/05/2001 provisional Application No. 60/209,713 filed 06/05/2000 (hereinafter '461).

The combination of '897, '429, and '369 do not explicitly teach, "*behavior are implemented as binary code*", however, as taught by '461 at page 4, paragraph [0067] (i.e. ... condition components provide binary decision processing ...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify teachings of '897, '429 and '369 for manipulating the behavior of the document/data is implemented as binary code as taught by '461. One of the ordinary skill in the art would have been motivated to modify this combination for quickly to assess the relevance of a large number of information items, and then efficiently to access information items that are deemed to be of relevance and interest, as taught by '461 page 1, paragraph [0003] (i.e..... access information items...), also since the code is now viewable, it would be more efficient and easier for programmer to debug the DHTML code, as taught by '369 at col. 2, lines 40-50 (i.e..... it would be easy to...).

In regard to dependent claim 36, is directed to a computer-readable media for performing the method of claim 32, and is similarly rejected under the same rationale.


Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is (703) 305-8781. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (703) 305-9792. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.



JOSEPH FEILD
SUPERVISORY PATENT EXAMINER

Quoc A. Tran

Patent Examiner

Technology Center 2176

July 13, 2004